

ABSTRACT OF THE DISCLOSURE

The method is disclosed for coating or impregnating a metal cutting tool with a metal oxide. The method includes the steps of applying a liquid metal carboxylate composition, or a solution thereof, to a substrate material, and exposing the metal cutting tool to an environment that will cause vaporization or dissipation of any excess carboxylic acids in the liquid metal carboxylate composition and conversion of the metal carboxylates to metal oxides.